

10. The interactive system of claim 9 wherein said cell sensor includes a weight sensor constructed and arranged to weigh said supplied amount of said biological cells.

11. The interactive system of claim 9 wherein said cell sensor includes a volume sensor constructed and arranged to measure volume of said supplied amount of said biological cells.

12. The interactive system of claim 9 wherein said control module is further arranged to calculate amounts of said process chemicals based on said cell sensor data.

13. The interactive system of claim 9 wherein said control module is further arranged to select an algorithm for said processing based on said cell sensor data.

14. The interactive system of claim 9 wherein said supply module includes several containers constructed and arranged to hold said process chemicals at least some of them being in a liquid state.

15. The interactive system of claim 9 wherein said process chemicals include an enzyme solution.

16. The interactive system of claim 9 wherein said process chemicals include a saline solution.

17. The interactive system of claim 9 wherein said processing module includes a processing vessel constructed and arranged to vary its volume relative to a volume of said process chemicals and said cells transferred to said vessel for processing.

18. The interactive system of claim 9 wherein said processing module includes a centrifuge.

19. The interactive system of claim 18 wherein said centrifuge is constructed and arranged to vary its volume by receiving a filling fluid arranged to occupy a selected volume.

20. The interactive system of claim 19 wherein said filling fluid is an expressor fluid designed to selectively express said process chemicals or said cells during centrifugation.

21. The interactive system of claim 9 wherein said processing module is constructed to agitate, heat, cool or mix said processing chemicals and said cells.

22. The interactive system of claim 9 wherein said sensors include an optical sensor.

23. The interactive system of claim 9 wherein said sensors include a pressure sensor.

24. The interactive system of claim 9 wherein said sensors include a mass flow meter.

25. The interactive system of claim 9 wherein said sensors include a temperature sensor.

26. The interactive system of claim 26 wherein said temperature sensor includes a IR sensor constructed and arranged to measure a temperature of said cells and said process chemicals inside said processing module.

27. The interactive system of claim 9 further including a pump constructed and arranged to advance said material from said supply module to said processing module in said conduits.

28. The interactive system of claim 9 wherein said supply module further includes at least one supply sensor constructed and arranged to measure the amount of at least one of said process chemicals transferred to said processing module.

29. The interactive system of claim 28 wherein said supply sensor includes a mass sensor.

30. A method of controlling operation of a cell processing system comprising a control module, a processing module connected in a sterile manner by a set of conduits to a cell module and to a supply module that provides selected process chemicals, and several sensors providing process data to said control module, said method including

providing in said cell module biological cells;

measuring an amount of said cells supplied to said processing module for processing;

providing in said supply module process chemicals according to a processing algorithm;

dispensing from said supply module said process chemicals to said processing module based on said measured amount of said cells;

processing said cells in said processing module; and

storing said processed cell, whereby preventing unwanted contamination of said cells during said dispensing and said processing.

31. The method of claims 30 wherein said dispensing from said supply module includes calculating amounts of said process chemicals based on said measured amount of said cells.

32. The method of claims 30 wherein said measured amount of said cells supplied for processing is less than the amount of said biological cells provided in said cell module.

33. A method of processing biological cells in a sterile environment comprising:

providing biological cells;

measuring an amount of said cells supplied for processing;

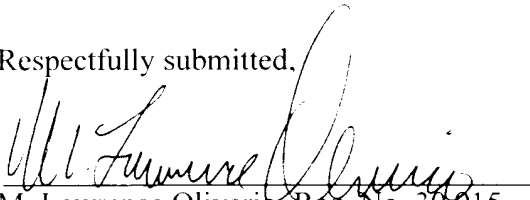
providing process chemicals according to a processing algorithm;

dispensing said process chemicals based on said measured amount of said cells;  
processing said cells; and  
storing said processed cell, whereby preventing unwanted contamination of said cells  
during said dispensing and said processing.

34. The method of claims 33 further comprising selecting said processing algorithm  
based on said provided cells.

Respectfully submitted,

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Docket No.: Z0090/7027

Date: December 1, 2000

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